

Claims

What is claimed is:

1. A spring clip device comprising:
a clip member having a closeable entranceway adapted to permit attachment of said clip member;
a swivel pivotally connected to said clip member to allow said clip member to rotate;
a housing pivotally connected to said swivel;
a sleeve member adapted to be connected to a lead, said sleeve adapted to telescopingly engage said housing;
a resilient member positioned within said housing and adapted to bias said sleeve into said housing.
2. The spring clip device of claim 1 further including a slide pin associated with said clip member; said slide pin adapted to close said entranceway of said clip member.
3. The spring clip device of claim 1, wherein said sleeve member is adapted to be connected to a cable.
4. The spring clip device of claim 1, wherein said housing includes an aperture adapted to allow said sleeve member to pass therethrough.
5. The spring clip device of claim 1, wherein said housing is a cage having a first end and a spaced apart second end.
6. The spring clip device of claim 5, wherein said cage includes a plurality of ribs interconnecting said first end to said second end.
7. The spring clip device of claim 1, wherein said sleeve includes a flange adapted to

retain said resilient member.

8. The spring clip device of claim 7, wherein said resilient member is positioned around said sleeve and contacts said flange at a first end and contacts said housing at a second end.
9. A spring clip device comprising:
 - a housing having a first end and a spaced apart second end;
 - a clip member connected to said housing and having an opening therein;
 - a connection member in sliding engagement with said housing; said connection member adapted to be connected to a restraint;
 - a resilient member associated with said housing and adapted to bias said connection member with respect to said housing.
10. The spring clip device of claim 9 further including a slide pin associated with said clip member, said slide pin adapted to close said entranceway of said clip member.
11. The spring clip device of claim 9, wherein said connection member is adapted to be connected to a cable.
12. The spring clip device of claim 9, wherein said housing includes an aperture adapted to allow said sleeve member to pass therethrough.
13. The spring clip device of claim 9, wherein said housing is a cage having a first end and a spaced apart second end.
14. The spring clip device of claim 13, wherein said cage includes a plurality of ribs interconnecting said first end to said second end.
15. The spring clip device of claim 9, wherein said sleeve includes a flange adapted to retain said resilient member.

16. The spring clip device of claim 15, wherein said resilient member is positioned around said connection member, said resilient member being in contact with said flange at a first end and in contact with said housing at a second end.
17. A spring clip device comprising:
 - a housing having a first end and a spaced apart second end;
 - a clip pivotally connected to said first end of said housing;
 - a connector adapted to slide in and out of said second end of said housing;
 - a resilient member positioned around said connector, said resilient member adapted to bias said connector into said housing;

said connector is adapted to compress said resilient member in the event that a force greater than the biasing force of said resilient member is applied to said connector.
18. The spring clip device of claim 17, further including a slide pin associated with said clip, said slide pin adapted to close said entranceway of said clip.
19. The spring clip device of claim 17, wherein said connector is adapted to be connected to a lead.
20. The spring clip device of claim 17, wherein said housing includes an aperture adapted to allow said connector to pass therethrough.
21. The spring clip device of claim 17, wherein said housing is a cage having a first end and a spaced apart second end.
22. The spring clip device of claim 21, wherein said cage includes a plurality of ribs interconnecting said first end to said second end.
23. The spring clip device of claim 17, wherein said connector includes a flange adapted to retain said resilient member.

24. A shock absorbing spring clip assembly including:
- a housing;
 - a spring clip member having a passageway, said spring clip member normally biased to a closed position but selectively movable to an open position for attachment of the spring clip member to a collar or other restraining mechanism.
 - a swivel member, extending from said spring clip member, a portion of which extends into said housing and is relatively rotatable with respect thereto;
 - a sleeve member adapted to be secured to a flexible lead, said sleeve member extending partially into said housing and laterally movable and relatively rotatable with respect thereto; and
 - a resilient biasing member positioned between said sleeve member and said housing and adapted to urge said sleeve member into said housing and adapted, when force is exerted to compress said biasing member, to absorb shock transmitted from said spring clip member to the flexible lead.
25. The shock absorbing spring clip of 24, further including a slide pin associated with said spring clip, said slide pin adapted to close an entranceway in said spring clip.
26. The shock absorbing spring clip of 24, wherein said housing includes an aperture adjusted to allow said sleeve member to pass there through.
27. The shock absorbing spring clip of 24, wherein said housing is in the form of a cage having a first end and a spaced apart second end.
28. The shock absorbing spring clip of 27, wherein said cage includes a plurality of ribs interconnecting said first end to said second end.
29. The shock absorbing spring clip of claim 24, wherein said sleeve member

includes a flange adapted to retain said resilient biasing member.